Getting to know Purdue Engineering

FYE International Parents Session
Aug 14, 2017

Organized by
The College of Engineering Undergraduate Education
Agenda

1.30pm-3.00pm:

- Welcome by- Prof. Harris and Dr. Holloway
- What to expect in the FYE- Dr.Hoffmann
- How to succeed at Purdue-Prof. Jones
- Building engineering related work experience- Dr. Oakes
- Common academic challenges (academic integrity) - Prof. Gray
- Q and A with Academic advisors
Where are parents from?
What to expect in the FYE

- FYE Courses
- Transition from FYE to Professional Schools
- Support
What to Expect in First-Year Engineering

Courses
Transitions
Support

Stephen Hoffmann
Assistant Head for First-Year Engineering
srh@purdue.edu
### Courses

<table>
<thead>
<tr>
<th>ENGR 131: Introduction to Engineering I</th>
<th>MA 161 or MA 165: Calculus I</th>
<th>Written Communication</th>
<th>CHM 115: General Chemistry I</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 132: Introduction to Engineering II</td>
<td>MA 162 or MA 166: Calculus II</td>
<td>Oral Communication</td>
<td>Selective: Chemistry II or Programming</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PHYS 172: Physics I (Mechanics)</td>
</tr>
</tbody>
</table>

**preparation for**


---

Stephen Hoffmann  
Assistant Head for First-Year Engineering  
srh@purdue.edu
Transitions

<table>
<thead>
<tr>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
</tr>
</thead>
</table>

First semester:
- Exploration and Learning
- No formal decisions
- ENGR 131 presentations
- Evening presentations
- Talking to faculty, advisors, older students
- Industrial Roundtable
- Time for individual exploration: works best when the student takes control and seeks out information.

Formal Request in late February

Placement in May after grades are posted.

Placement:
- Based on grades
- GPA and EAI > 3.20 = priority
- GPA or EAI < 3.20 = individual review by the discipline
- History: most programs accept all students, a few are competitive
**Student Support**

**FYE ADVISING OFFICE**
ARMS 1300
- assigned advisor
- schedule appointments at purdue.edu/fye
- assistance with:
  - academic pathways
  - academic skill development
  - career resources
  - personal issues
  - university services

**ACADEMIC SUPPORT**
- Office Hours regularly available
- Supplemental Instruction (SI) for MA, CHM, PHYS. See www.purdue.edu/si

---

Stephen Hoffmann
Assistant Head for First-Year Engineering
srh@purdue.edu
How to Succeed at Purdue
Common Freshman Mistakes

1. **Study Skills** – Some students have not fully developed study skills in high school and struggle to learn how to study effectively.

2. **Assistance** – Some students are not accustomed to advocating for themselves and asking for help because they never needed to in high school or First-Year Engineering.

3. **2ND Year Transition** – Most students recognize and successfully make the transition to college, but many fail to see the 2nd year transition. The concepts are all new and the workload takes a notable step up.

Three Common Types of Students

1. **“Disengaged” Learner** – Doesn’t come to class. Doesn’t do homework. Doesn’t prepare for exams. Basically is starving themselves of learning.

2. **“Binge” Learner** – Tries to finish HW at the last minute. Attends class but is not truly engaged in learning. Crams for exams at the last minute. This student may even have some success, but what little they learn doesn’t stick. They are not truly focused on learning.

3. **“Healthy” Learner** – Attends and is fully engaged in class. HW done in advance giving ample opportunity to ask questions and truly learning. Exam preparation is likewise done in advance taking full advantage of all available resources (peers, faculty, TAs, etc.).

Pyramid of Success

- **Attend Every Class**
  - Sit in front row; introduce yourself to Professor; fully participate in class

- **Do All Homework**
  - Homework = Practice; use resources (TAs, faculty, peers)
  - Seek a personal tutor if having great difficulty

- **Prep for Exams**
  - Request sample exams; work with peers; attend any and all help sessions; utilize faculty/TAs office hrs.

- **Debrief on Exam Results**
  - Secure copy of exam solution; meet with Prof. to review; submit regrades as needed.

- **Prep for Finals**
  - Same as prepping and debriefing for Exams (below); pick up graded final exam to check for grading errors.

- **Treat Classes Like a Job**
  - Arrive to campus early; stay on campus all day; when not in class go to the Library or a Student Common’s Area to work on homework.

- **Other Sources of Assistance**
  - Recitations/Help Sessions
  - Tutorial Rooms
  - Faculty/TA Office Hours
  - Tutors
  - Peer Success Coach
Building engineering related work experience

- Why is it especially important for our intl. students?
Building Engineering
Related Work Experience

Prof. William (Bill) Oakes, P.E.
Professor, Engineering Education
Director, EPICS Program
Purdue University
Background

- Design Engineer with GE Aviation
  - Must be better ways to prepare students to be leaders in industry
- Corporate Recruiter too
  - Good Grades
  - Communication Skills
  - Ability to work with and/or lead others
  - Work Experience
Experiences

- Center for Career Opportunities
- Job Fairs
  - In September Industrial Roundtable
- Office of Professional Practice
  - Internships
  - Co-ops
- Student Organizations
  - Dean of Students
  - Engineering Depts.
- Courses
  - EPICS: Gain experience while taking classes
Community-Based Design

~600 students per semester
~250 returning students
Multi-Disciplinary, 50+ majors

1st Year – 4th Year Students

~100 Active Community Projects
300+ deployed

3000+ alumni
To participate in EPICS, you register for one of the following course numbers:

- EPCS 10100: First-Year Participation in EPICS (1 cr)
- EPCS 20100: Sophomore Participation in EPICS (1 cr)
  - EPICS 20200: Sophomore Participation in EPICS (2 crs)
- EPCS 30100: Junior Participation in EPICS (1 cr)
- EPCS 30200: Junior Participation in EPICS (2 crs)
- EPCS 40100: Senior Participation in EPICS (1 cr)
- EPCS 40200: Senior Participation in EPICS (2 crs)

Office: Armstrong Hall, Room 1200
How does it count?

- Aero/Astro Engineering – technical elective
- Agricultural & Biological Engineering – technical elective
- Biomedical Engineering – Elective
- Civil Engineering - technical elective
- Computer Engineering – ECE elective, Sr. Design
- Computer Sciences - free elective, Sr. Design
- Chemical Engineering – technical Elective
- Electrical Engineering –ECE Elective, lab credits, Sr. Design
- Environmental & Ecological Engineering - Tech Elective, Sr. Design
- Materials Engineering – Technical Elective
- Mechanical Engineering - Technical elective
- Multidisciplinary Engineering – Technical Elective, Sr. Design

- Entrepreneurship Certificate
  - Option or capstone (400 level)

- Please see your advisor if your major is not listed.
Thank you!!!!
Common academic challenges
(Academic Integrity)
Academic Challenges

PROF. JEFFERY L. GRAY
SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING
AUGUST 15, 2016
Common Challenges:
- New/different teaching styles
- Understanding how grades are assigned
- Study habits
- Time management
- Personal responsibility
- Class attendance
- Handling the college workload
- Homesickness
- Roommate issues
- Making friends
- Health issues

Encourage your student to:
- Go to class -- much of success in life is "showing up."
- Start new assignments well before they are due so that you have time to get help if you need it.
- Take advantage of instructor and TA office hours and help rooms.
- Get to know your Academic Advisor and use them as a resource
- Be aware of Purdue’s expectations for Academic Integrity
"Purdue University values intellectual integrity and the highest standards of academic conduct. To be prepared to meet societal needs as leaders and role models, students must be educated in an ethical learning environment that promotes a high standard of honor in scholastic work. Academic dishonesty undermines institutional integrity and threatens the academic fabric of Purdue University. Dishonesty is not an acceptable avenue to success. It diminishes the quality of a Purdue education which is valued because of Purdue's high academic standards" (S. Akers, Academic Integrity, A Guide for Students, 1995, revised 1999).
DEFINITION OF ACADEMIC DISHONESTY

Purdue prohibits "dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty" (Section B.2.a of the Student Regulations). Furthermore, the University Senate has stipulated that "the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as the use of ghostwritten papers, the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest" (University Senate Document 72-18, December 15, 1972).
RESOURCES

Academic Integrity: A Guide for Students:
www.purdue.edu/odos/osrr/resources/documents/academic_integrity.html

Student Code of Conduct:
www.purdue.edu/studentregulations/student_conduct/regulations.html

The Purdue Online Writing Lab (OWL):
owl.english.purdue.edu

Supplemental Instruction:
www.purdue.edu/studentsuccess/academic/si/
What to expect during advising (Q&A)

- Corey Linkel (BME)
- Elizabeth Allum (IE)
Available Resources in the College of Engineering:

- Meet with the Assistant Director of Student Success, Darshini Render. Appointment via https://webapps.krannert.purdue.edu/kap/calendar/
- International Student Peer Coaching Program https://engineering.purdue.edu/Engr/InfoFor/InternationalStudents/peer-coaches
- International Student specific web resources: https://engineering.purdue.edu/Engr/InfoFor/InternationalStudents